

Amendments to the Claims

1. *(Currently Amended)* A frequency divider comprising:
 - a first flip-flop (~~M1, M2, M3, M4~~) having a first clock input (~~$\overline{C1}$~~) for receiving a clock signal, the flip-flop further comprising a first set input (~~Q4~~) and a first non-inverted output (~~Q1~~), and
 - a second flip-flop (~~M1', M2', M3', M4'~~) having a second clock input (~~C1~~) for receiving a second clock signal that is substantially in anti-phase with the clock signal inputted into the first clock input (~~$\overline{C1}$~~), a second set input coupled to the first non-inverted output (~~Q1~~), a second non-inverted output (~~Q2~~) and a second inverted output (~~$\overline{Q2}$~~), the second inverted output (~~$\overline{Q2}$~~) being coupled to the first set input (~~Q4~~).

2. *(Original)* A frequency divider as claimed in Claim 1, wherein a period of the clock signal is of the same order of magnitude as a delay through an inverter stage of the divider.

3. *(Currently Amended)* A frequency divider as claimed in Claim 1, wherein a controllable switch (~~M7~~) is coupled to the first data input (~~Q4~~) and to the third output (~~Qa2~~) and being controlled by a clock signal driving the first flip-flop (~~M1, M2, M3, M4~~).

4. *(Currently Amended)* A frequency divider as claimed in Claim 1, wherein the controllable switch (~~M7~~) is coupled to the third output (~~Qa2~~) via resistive means (~~R~~).